

In the Claims:

Claim 3. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the airflow profile associated with the breath cycle.

Claim 4. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the temperature profile associated with the breath cycle.

Claim 5. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the moisture profile associated with the breath cycle.

Claim 6 (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the oxygen or carbon dioxide profile associated with the breath cycle.

Claim 7 (Amended) A portable device according to claim 1, wherein the trigger point corresponds to the point at which the lungs of the patient are most empty.

Claim 8. (Amended) A portable device according to claim 1, wherein said monitor is connectable to an electronic information processor.

Claim 12. (Amended) A portable device according to claim 9, wherein said electronic information processor includes a second predictive algorithm for predicting the optimum amount of medicament to release.

Claim 13. (Amended) A portable device according to claim 9, wherein said electronic information processor includes a second look-up table for predicting the optimum amount of medicament to release.

Claim 14. (Amended) A portable device according to claim 12, wherein said electronic information processor includes a dose memory for storing information about earlier delivered

does and reference is made to the dose memory in predicting the optimum amount of medicament to release.

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cont.
Claim 15. (Amended) A portable device according to claim 12, additionally comprising a display for displaying information about the optimum amount of medicament to release.

Claim 16. (Amended) A portable device according to claim 12, additionally comprising a selector for selecting the amount of medicament to release.

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Claim 19. (Amended) A portable device according to claim 16, wherein the selector comprises a timing mechanism for varying the time interval of actuation of the actuator.

Claim 20. (Amended) A portable device according to claim 16, wherein the selector comprises a metering mechanism between the container and the release mechanism for metering a variable quantity of medicament for release.

Claim 21. (Amended) A portable device according to claim 16, wherein the selector comprises a multiple-fire mechanism for multiple actuation of the actuator, wherein each actuation releases a portion of the optimum amount of medicament.

Claim 22. (Amended) A portable device according to claim 1, wherein said medicament container is an aerosol container and said release mechanism is an aerosol valve.

Claim 28. (Amended) A portable device according to claim 1, wherein said medicament container is a dry-powder container or a liquid container.

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Claim 29. (Amended) A portable device according to claim 1, wherein said actuator comprises an energy store for storing energy which energy is releasable to activate the release mechanism of the medicament container.

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Claim 36. (Amended) A portable device according to claim 1, additionally comprising a safety mechanism to prevent unintended multiple actuations of the actuator.

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Claim 38. (Amended) A portable device according to claim 1, additionally comprising an actuation counter.

Claim 39. (Amended) A portable device according to claim 1, additionally comprising a medicament release counter, preferably a dose counter.

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cont.

Claim 40. (Amended) A portable device according to claim 1, additionally comprising a manual override.

Claim 41. (Amended) An inhalation device for the delivery of inhalable medicament comprising a housing and a system according to claim 1.

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